



UPEN DATASHEET & USER MANUAL

Wireless & powerful UV LED curing pen



Delivered in a kit with accessories for an efficient & safe curing process

Up to 2 hours operating life thanks to the Li-ion rechargeable battery

A lightweight and easy-to-use product designed for precise & quick manual applications.

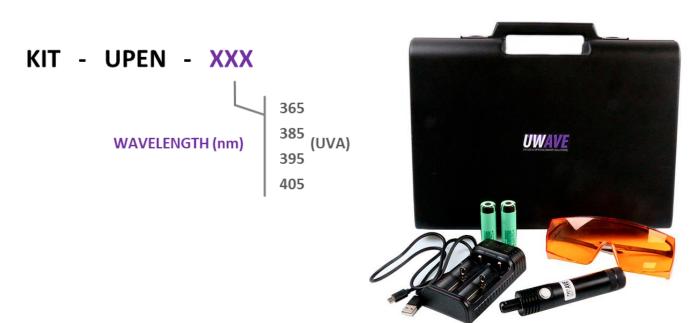
Electronics	Power supply	Rechargeable Li-ion battery (3,6V - 3100mAh)	
	Running time	Up to 2 hours per battery	
	Illumination mode	Continuous with an ON/OFF	
Optics	Wavelength	UVA: 365, 385, 395, 405 nm	
	Irradiance	Up to 2000 mW/cm ²	
Mechanics	Width x Height x Length	146mm x 12mm (head diameter) & 25mm (body diameter)	
	Weight	130 g	
	Material	Device body: Aluminum alloy	
	IP rating	IP40	
Environment	Operation	Temperature: 10°C to 35°C – Humidity: 20% to 80% humidity (with no condensation) – Altitude: Up to 2000m	
	Regulations & marking	CE - UKCA	
	Environmental standards	RoHS III Directives - REACH Regulation	







UPEN standard version available into a complete KIT for manual use:







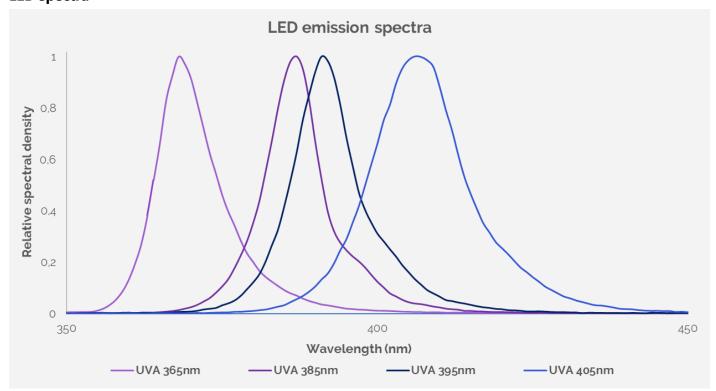
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Version 2.1 **Update: October 23**



Optical considerations

LED spectra

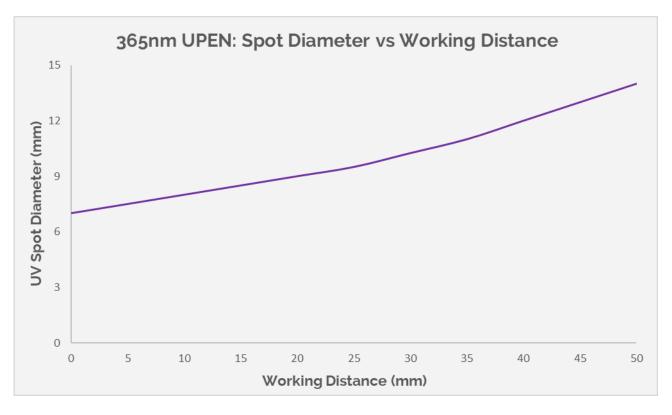




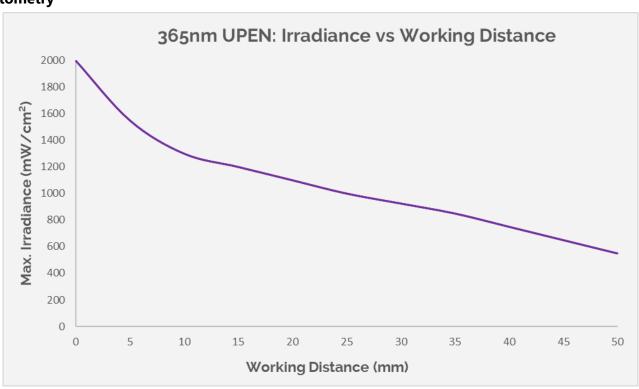
For other wavelengths (UVC / UVB / UVA / VISIBLE / IR), feel free to ask us!



UV spot size



Photometry



Curve plotted for UVA wavelength. Radiometer: GIGA HERTZ OPTIK RCH-116 (June 2023). For the UV spot graph, the spot size is the exposed area where the irradiance is higher than 50% of the maximum irradiance.



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General Information

UPEN-XXX



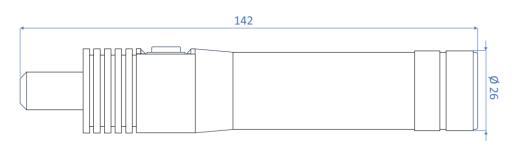


When the UV light starts blinking: battery is low and must be replaced or charged.

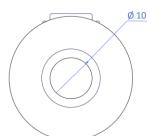
Battery positioning



Mechanical considerations (mm)



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In order to allow facilitated manual use of the UPEN-XXX, UWAVE has developed a complete kit which contains the following components:



Li-ion Rechargeable Batteries



The kit contains two rechargeable batteries to power the UV LED spotlight.

- Each battery offers a 2-hour continuous running time.
- Full charge of batteries may take up to 8 hours with the charger.
- Compliant to CE, RoHS, and REACH standards



Please fully charge the batteries before first use.

Batteries Charger + USB Cable



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The kit contains a charger to charge the two batteries.

- The charger is powered with an USB cable provided in the kit.
- Full charge of batteries may take up to 8 hours with the charger.
- Select mode 1A.
- LED indicator to see the level of charge.
- User's manual included.
- Compliant to CE, RoHS, REACH, and FCC standards



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UWAVE products come under the standard DIN EN 62471:2008 which classified sources of optical radiation into risk groups subject to their potential photo biological hazard. Due to the emission of high UV irradiation, our products belong to Risk Group 3 (hazardous even for momentary exposure) therefore special safety measures, detailed in the following, must be observed.



Thanks to its experience and knowledge about UV risks, UWAVE offers to its customer a wide range of UV protections & services:

Eyes protection	UGLASS-02: To protect eyes from direct rays.		UGLASS-03: To cover all the face.		
Body protection	UGLOVE-01: to protect hands.		UV-SHIELD: To protect all workers around.		
UV measurement	EIT LEDCURE: UV values recording.		GIGAHERTZ OPTIK: Direct UV value reading.		
UWAVE expertise	According to European Directive 2006/25/EC.	PERFORMANCES Monitoring of all your de	performances of	MAINTENANCE & REPAIR Preventive maintenance on site & LED repair service.	



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